PRODUCT DATASHEET
ST9-EM 22 123° 12 W/4000 K G10q

SubstiTUBE T9 EM | Circular LED tube for electromagnetic control gear and AC mains



AREAS OF APPLICATION

- General illumination within ambient temperatures from −20…+45 °C
- Corridors, stairways, parking garages
- Domestic applications
- Decorative applications

PRODUCT BENEFITS

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 50% (compared to T9 fluorescent lamp on CCG)
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- LED alternative to classic T9 fluorescent lamps in CCG luminaires
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free and RoHS compliant
- Luminous efficacy: up to 100 lm/W



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TECHNICAL DATA

Electrical data

Rated wattage	12.00 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	12.00 W
Nominal current	0.06 A
Type of current	AC
Power factor λ	> 0.90

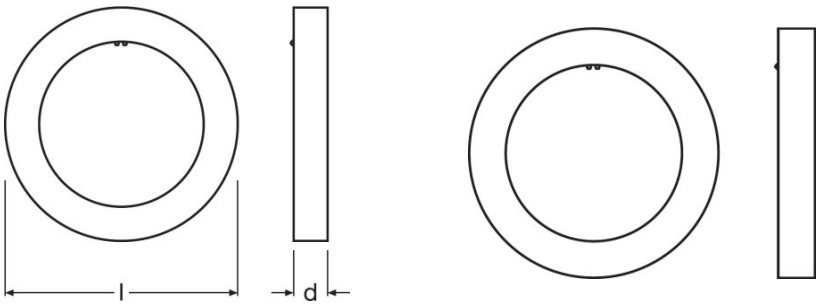
Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	1200 lm
Rated luminous flux	1200 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	1200 lm
Color rendering index Ra	≥80
Standard deviation of color matching	≤6 sdcm

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	123.00 °

Dimensions & weight



Product weight	143.00 g
Overall length	205.0 mm

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Temperatures & operating conditions

Ambient temperature range	-20…+45 °C

Lifespan

Lifespan	30000 h
Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G10q
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A+
Energy efficiency class	A+
Energy consumption	12 kWh/1000h

Country-specific categorizations

Order reference	ST9-22 12W/840

Logistical data

Temperature range at storage	-20…65 °C

EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears
- Suitable for operation with AC mains

SAFETY ADVICE

Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

LOGISTICAL DATA

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Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075135444	ST9-EM 22 123° 12 W/4000 K G10q	Shipping carton box 10	385 mm x 232 mm x 237 mm	21.17 dm^3	2164.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

REFERENCES / LINKS

For current information see

- www.ledvance.com/substitube

LEGAL ADVICE

When used to replace a T9 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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